



# भारत का राजपत्र The Gazette of India

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12

सं० 41] नई दिल्ली, शनिवार, अक्टूबर 11, 1980 (आश्विन 19, 1902)  
No. 41] NEW DELHI, SATURDAY, OCTOBER 11, 1980 (ASVINA 19, 1902)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 11th October 1980

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed  
under Section 135 of the Act.

4th September 1980

1010/Cal/80. Stauffer Chemical Company. N-cyanoalkyl  
halooctamides herbicidal antidotes.

1011/Cal/80. Gould Inc. Low antimony lead-based alloys  
and use thereof.

5th September 1980

1012/Cal/80. The B. F. Goodrich Company. Process for  
coating reactors using organic compound vapor  
application.

1013/Cal/80. The B. F. Goodrich Company. Process for  
coating reactors using organic compound vapor  
application.

1014/Cal/80. Union Carbide India Limited. An improved  
contact strip in an for a slide switch for a dry cell  
torch, and a dry cell torch fitted therewith.

1015/Cal/80. J. C. Dos Santos. Fit-in blocks for the build-  
ing of walls and method of construction utilising  
such blocks.

1016/Cal/80. Warman International Limited. An improved  
pump. (September 7, 1979).

1-277 GI/80

1017/Cal/80. M/s. Pulp and Paper Research Institute. A  
process for obtaining a contaminant-free effluent  
from effluents contaminated with one or more of  
the following material, colouring matter, and  
suspended solids.

1018/Cal/80. The Jay Engineering Works Limited. Ceiling  
fans.

6th September 1980

1019/Cal/80. Wheelabrator-Frye Inc. Bladed centrifugal  
blasting wheel.

1020/Cal/80. E. I. Du Pont De Nemours and Company.  
Insecticidal carbamoyl sulfides.

8th September 1980

1021/Cal/80. J. M. Hanlet and E. R. J. Tarantino. Electro-  
magnetic energy absorber.

APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, TODI ESTATES,  
(3RD FLOOR), LOWER PAREL (WEST),  
BOMBAY-400 013

28th August 1980

252/BOM/80. Savy Martin. Improvement in or relating to  
bicycles.

253/BOM/80. G. Mergulhao. A Bush bearing sleeve for  
spindle of art silk or man-made fibre yarn twisting  
machines.

254/BOM/80. Govind Agarwal. Bush Bearing replacer.

30th August 1980

255/BOM/80. Thermax (India) Pvt. Ltd. A membrane  
wall tubular helical coil for use in a coil type  
fired heater, heat exchanger or the like,

APPLICATIONS FOR PATENTS FILED AT THE PATENT  
OFFICE BRANCH, 61, WALLAJAH ROAD,  
MADRAS-600002

1st September 1980

169/Mas/80. S. Ganesan, M. I. Sait and P. R. Govindaswamy  
Iyer. The automobile speed control device.

170/Mas/80. M. A. Kamarudin. An improved flushing  
cistern.

6th September 1980

171/Mas/80. Dr. U. Jayaprakash. Cervical spine guard

COMPLETE SPECIFICATION ACCEPTED

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The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 32A.

148061.

Int. Cl.-C09b 31/00.

PROCESS FOR THE PREPARATION OF DISAZO COMPOUNDS.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF  
6230 FRANKFURT/MAIN 80, FEDERAL OF GERMANY.

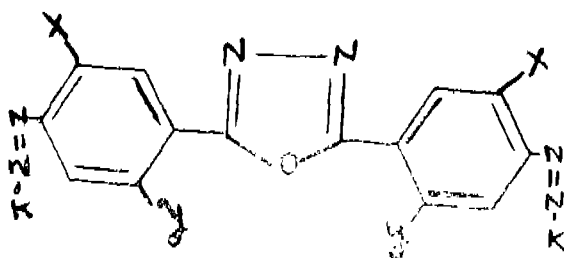
Inventors : OTTO FUCHS, KLAUS HUNGER, DIETER  
WEBER AND REINHARD ZUNKER.

Application No. 1769/Cal/77 filed December 26, 1977.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

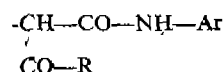
15 Claims.

A process for the preparation of a compound of the formula  
I.

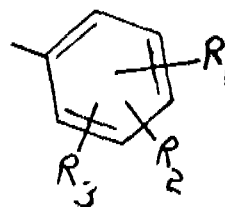


wherein X and Y are hydrogen, chlorine, bromine, methyl, ethyl, methoxy or ethoxy and K stand for equal or different

residues of azoic coupling components being free from solubilizing groups and having the formula



wherein R is methyl or phenyl and Ar is a radical of the formula IIa.



wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup>, which are the same or different, stand for hydrogen chlorine, bromine, alkyl of 1 to 4 carbon atoms, alkoxy of 1 to 4 carbon atoms, alkanoylamino of 2 to 5 carbon atoms, benzoylamino or nitro, with the proviso that R<sup>3</sup> is hydrogen when X and Y are hydrogen; or Ar is a group of the formula IIb, IIc, IId, IIe, or IIf.

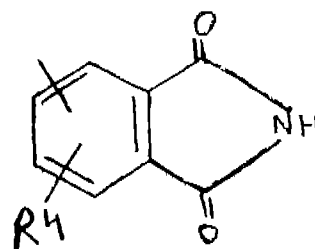
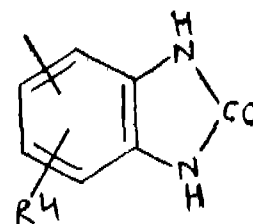
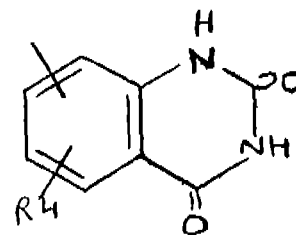
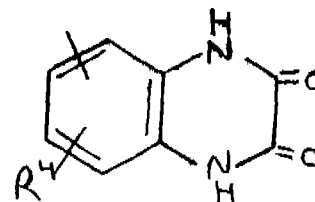
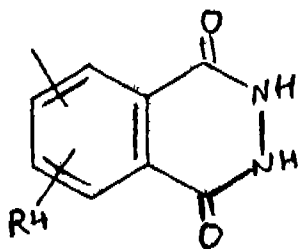
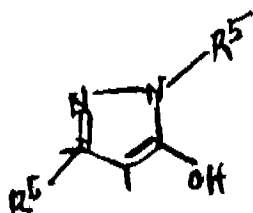


Fig IIc

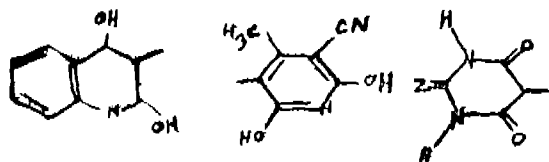


Fig. II<sub>f</sub>

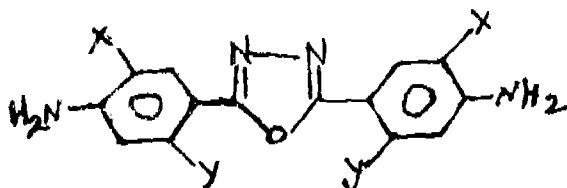
wherein R<sup>4</sup> is hydrogen, chlorine, bromine, alkyl of 1 to 4 carbon atoms, alkoxy of 1 to 4 carbon atoms, carbalkoxy of 2 to 5 carbon atoms or nitro; or K is a group of the formula III.



wherein R<sup>6</sup> is phenyl, tolyl or chlorophenyl and R<sup>5</sup> is methyl, carbalkoxy of 2 to 5 carbon atoms, carbamoyl or alkanoylamino of 2 to 5 carbon atoms, or K is a group of the formula IV, V or VI.



wherein Z is oxygen, sulfur or N-H, which comprises bis-diazotizing a compound of the formula VII.



wherein X and Y are as defined above, and coupling it onto two molar equivalents of an azoic coupling component of the formula K—H, wherein K is as defined above and when desired coupling product is thermally after treated at a temperature of upto 200°C.

Comp. Specn. 23 Pages.

Drg. 4 Sheets.

CLASS 160A.

148062.

Int. Cl. B60k 11/00, 13/00.

**VEHICLE.**

Applicant: MESSERSCHMITT-BOLKOW-BLOHM GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF 8000 MUNCHEN, GERMAN FEDERAL REPUBLIC.

Inventor: HERBERT ERTL.

Application No. 49/Del/78 filed January 18, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

26 Claims

A vehicle comprising two structurally similar parts interconnected by a joint providing rotation around the longitudinal axis of the vehicle, the parts being hingedly connected to

wivel around a pivot axis transverse to the longitudinal axis and a locking device arranged opposite the pivot, each part comprising a water-tight centre compartment and water-tight side compartments, the centre compartment of one part housing the engine, cooling air and exhaust systems, and the centre compartment of the other part having the drive and control means.

Comp. Specn. 19 Pages.

Drg. 8 Sheets.

CLASS 148L.

148063.

Int. Cl. G03c 1/00.

**PHOTOGRAPHIC FILM.**

Applicant: VEB FILMFABRIK WOLFEN, OF 444 WOLFEN 1, GERMAN DEMOCRATIC REPUBLIC.

Inventors: HORST ENGELMANN, GUNTHER FISCHER AND HERBERT KREIBICH.

Application No. 456/Cal/78 filed April 26, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A photographic film comprising a film substrate coated with an emulsion containing at least one emulsion layer as herein described or a conventional auxiliary layer, which emulsion layer or auxiliary layer contains a stabilizer of the general formula shown in Fig. 1 and/or Fig. 2.

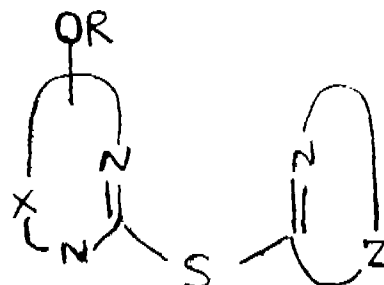


Fig. 1

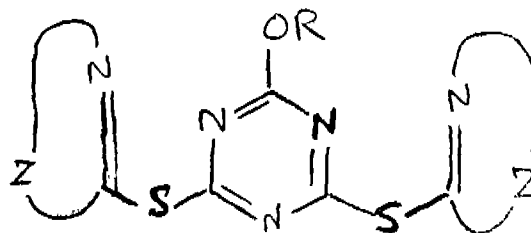


Fig. 2

in which R is hydrogen, alkali metal or ammonium; X is a group which completes a 5- or 6 membered heterocyclic ring which may be condensed with an aromatic or heterocyclic ring and/or may carry methyl groups; and Z is a group which completes an azole ring which may be condensed with an aromatic or heterocyclic ring and/or may carry phenyl groups.

Comp. Specn. 21 Pages.

Drg. 1 Sheet.

CLASS 32F2b.

148064.

Int. Cl. C07d 91/00.

A PROCESS FOR PREPARING PHARMACOLOGICALLY ACTIVE SUBSTITUTED THIAZOLIDINE-DIONES.

Applicants : SARABHAI RESEARCH CENTRE, WADI WADI, BARODA, GUJARAT, INDIA.

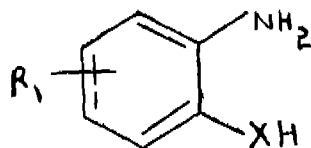
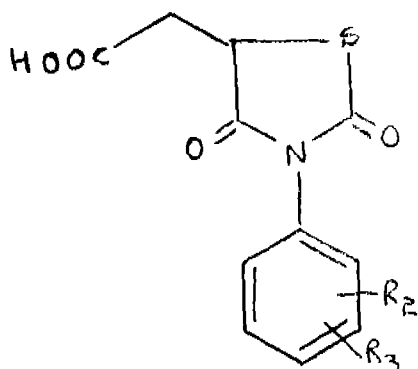
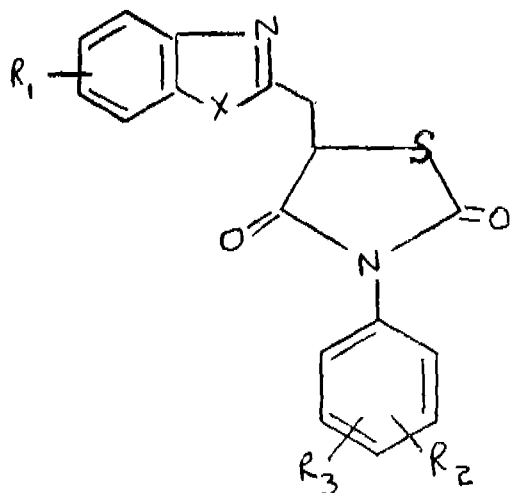
Inventors : 1. NARAYAN KRISHNA KUMAR, 2. HARINDRA SINGH, 3. KISHNA LAL MNUSHI, 4. CHANDRAKANT DEVIDAS LOVEKAR, 5. DEVABRATA SETH, 6. ARIYANAYA GIPURAM VISVANATHAN RADHAKRISHNAN, 7. SASHIKANT HIRALAL PARIKH, 8. GOPAL PRASAD DAS, 9. PYARA KRISHEN GROVER.

Application No. 200/BOM/78 filed July, 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Bombay Branch.

### 3 Claims.

1. A process for the preparation of pharmacologically active substituted thiazolidinediones of the general formula III of the accompanying drawing wherein,



R<sub>1</sub> is hydrogen or alkyl, for example methyl, ethyl, n-propyl or alkoxy, for example methoxy, ethoxy, or halogeno-alkyl, for example trifluoromethyl or halogen, for example fluoro, chloro, bromo or optionally substituted aryl group, for example phenyl-p-chlorophenyl naphthyl or nitro or amino or isothiocyanato or hydroxy or acetoxy or dialkylaminoalkoxy, for example dimethylaminoethoxy, diethyl-aminoethoxy or an aminoalkoxy group wherein amino function is part of a heterocycle, for example piperidinoethoxy, morpholinoethoxy or optionally substituted aryloxy, for example phenoxy, p-chloro phenoxy, p-nitrophenoxy or optionally substituted thio-phenoxy, for example thiophenoxy, p-nitrothiophenoxy, p-chlorothiophenoxy or optionally substituted aromatic ring

fused at 4, 5-position or 5, 6 position R<sub>2</sub> and R<sub>3</sub> stand for hydrogen or alkyl, for example methyl, ethyl n-propyl or alkoxy, for example methoxy, ethoxy, n-propoxy or aryloxy, for example phenoxy, p-chlorophenoxy, p-nitrophenoxy or dialkylaminoxy, for example dimethylaminoethoxy, diethyl-aminoethoxy or an aminoalkoxy group wherein amino function is part of a heterocycle, for example piperidinoethoxy, morpholino-ethoxy, pyrrolidinoethoxy or nitro or isothiocyanato or halogen, for example fluoro, chloro, bromo or halogenoalkyl, for example trifluoromethyl;

X stands for O, S or NR wherein R stands for hydrogen or alkyl for example methyl, ethyl, n-propyl or optionally substituted aromatic ring, for example phenyl, p-chlorophenyl, which comprises reacting a substituted thiazolidinedione acetic acid of the general formula I of the accompanying drawings wherein R<sub>2</sub> and R<sub>3</sub> have the same meaning as defined before with substituted aniline of the general formula II of the accompanying drawings wherein R<sub>1</sub> and X are as defined before, in the presence of polyphosphate ester or polyphosphoric acid.

Comp. specn. 8 pages.

Drg. 1 Sheet.

CLASS 68E<sub>1</sub>

148065.

Int. Cl. G05f 1/00.

"A VARIABLE STATIC RELAY FOR CONTROLLING POWER SUPPLY TO LOAD OR LOADS."

Applicants : BHARAT BIJLEE LIMITED, ELECTRIC MANSION, 6TH FLOOR, APPASAHEB MARATHE MARG, PRABHADEVI, BOMBAY-400 025, MAHARASHTRA, INDIA.

Inventor : (1) SWANAND ANANT GOGATE.

Application Number : 237/Bom/1978 Filed Aug. 10, 1978.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 7 Claims.

A variable static relay for controlling power supply to a load or loads which is connectable to the load or loads, an a.c. supply and a d.c. supply and comprises atleast one branch for each phase of the a.c. supply, each branch having atleast two identical arms, each arm being connected antiparallel to the other and having a main network comprising atleast one rectifier and an impedance coil connected in series, a pair of control networks each comprising an impedance coil such that one of the impedance coils in the control networks has same number of ampere turns as the impedance coil in the main network and at least one magnetic core placed between the impedance coils, atleast one decision circuit where through the control networks in each branch being connectable to the d.c. supply; and optionally atleast one pair of rectifying means connected to each branch and each said rectifying means being connected anti-parallel to the other.

Comp. Specn. 12 Pages.

Drg. 2 Sheets.

CLASS 39N + 40F

148066.

Int. Cl. B01d 15/00 + C01b 33/00.

A PROCESS FOR THE REGENERATION OF SPENT MOLECULAR SIEVE 4A.

Applicants : INDIAN PETROCHEMICALS CORPORATION LIMITED P.O. PETROCHEMICALS, DIST : BARODA, GUJARAT, INDIA.

Inventor : SODANKOOR GARADI THIRUMALESHWARA BHAT.

Application No. 268/BOM/78 filed September 7, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

### 10 Claims.

A process for the regeneration of spent "molecular sieve 4A" which has lost its adsorption capacity due to its use in drying of naphtha or other hydrocarbon streams comprising heating the spent "molecular sieve 4A" at 35-100°C in an aqueous solution of sodium compounds called regenerating solution as herein described such that the weight of the spent "molecular sieve 4A" used is not more than 1/4th of the weight of the said regenerating solution.

Comp. Specn. 7 Pages.

No Drawings.

CLASS 116-C.

148067.

Int. Cl. B65g 22/32, 15/32.

**BI-DIRECTIONAL HINGED CONVEYOR BELT.**

Applicants : THE LAITRAM CORPORATION OF 220 LAITRAM LANE, HARAHAN, LOUISIANA 70123 U.S.A.

Inventors : JAMES MARFIAL LAPEYRE.

Application No. 563/Del/78 filed on July 31, 1978.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

**24 Claims.**

A bi-directionally movable multiple link conveyor comprising :

a plurality of modular links each having;

a first integral central linking portion terminating in first and second linking ends disposed along a conveyor axis;

a second integral central linking portion terminating in third and fourth linking ends disposed along said conveyor axis;

first and second arms extending outwardly along a first axis transverse to said conveyor axis and being integrally formed with said first linking portion;

third and fourth arms extending outwardly along said first axis and being integrally formed with said second linking portion;

a plurality of spaced ribs defining a conveyor surface and attached to only said third and fourth arms of each modular link and being transversely disposed thereon and upstanding therefrom and outwardly extending from the sides thereof substantially along said conveyor axis; and

said second linking end of said first linking portion being pivotally coupled to said third linking end of said second linking portion for pivotal movement of said first and second linking portions about said first axis;

said first linking end of each of said links being of pivotally coupled to said fourth linking end of an adjacent link for pivotal movement about a second axis orthogonal to said conveyor axis and said first axis.

Comp. Specn. 25 Pages.

Drg. 6 Sheets.

CLASS 32F<sup>a</sup> + 55D.

148068.

Int. Cl. C07d 51/78 -; A01n 9/00.

**"A PROCESS FOR THE PRODUCTION OF O, O-DIETHYL-O-QUINOXALINYL-(2)-THIOPHOSPHATE".**

Applicants : SEARLE (INDIA) LIMITED, OF RALLI HOUSE, 21, DAMODARDAS SUKHADVALA MARG, BOMBAY-400 001, MAHARASHTRA, INDIA.

Inventors : (1) DR. RAMNIWAS GOEL, (2) DR. SURESH TRIMBAK GORE AND (3) DR. RAVI RATAN SOBTI.

Application No. 149/Bom/1979 Filed May, 25, 1979.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**15 Claims.**

An improvement in the process for the production of O,O-Diethyl-O-quinoxaliny-(2)-thiophosphate by reacting an alkali metal salt of 2-hydroxyquinoxaline with O, O-diethyl chlorothiophosphate in which the said improvement is characterised in that the reaction is performed in two immiscible phases in the presence of a mixed catalyst consisting of a quaternary ammonium compound (salt) and an amine instead of only quaternary ammonium compound (salt) as the catalyst.

Comp. Specn. 10 Pages.

Drawing Nil.

CLASS 32F<sup>a</sup> + 55D.

148069.

Int. Cl. C07d 51/78 -; A01n 9/00.

**A PROCESS FOR THE PRODUCTION OF O, O-DIETHYL-O-QUINOXALINYL-(2)-THIOPHOSPHATE.**

Applicants : SEARLE (INDIA) LIMITED RALLI HOUSE 21, DAMODARDAS SUKHADVALA MARG BOMBAY-400 001, INDIA.

Inventors : 1. DR. RAM NIWAS GOEL, 2. DR. SURESH TRIMBAK GORE, 3. DR. RAVI RATAN SOBTI.

Application No. 150/Bom/79 Filed May 25, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

**11 Claims.**

1. An improvement in the process for the production of O, O-diethyl-O-quinoxaliny-(2) thiophosphate by reacting an alkali metal salt of 2-hydroxyquinoxaline with O, O-diethyl chlorothiophosphate in which the said improvement is characterised in that the reaction is carried out in two immiscible phases in the presence of a quaternary ammonium compound (salt) such as herein before described as a catalyst.

Comp. Specn. 8 Pages.

No drawings.

CLASS 56 D+G.

148070.

Int. Cl. B01d 12/00, 17/00.

**A PROCESS FOR RECOVERY OF VOLATILE SOLVENTS LIKE KEROSENE FROM SOLVENT AND WATER IMPREGNATED MATERIAL SUCH AS A PRINTED TEXTILE MATERIAL.**

Applicants : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION P.O. POLYTECHNIC, AHMEDABAD, 380015, GUJARAT, INDIA.

Inventors : 1. SHAILESH RASIKCHANDRA BHATT, 2. SURYAKANT SHIVSHANKER TRIVEDI AND 3. KOPULA SUBRAHMANYAM.

Application No. 105/BOM/77 Filed March 14th, 1977.

Post dated 14th Sept., 1977.

Complete Specn. left December 12th, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

**5 Claims.**

1. A process for recovery of volatile solvents like kerosene from the solvent and water impregnated material, such as a printed textile material, characterised in that a pressure drop is caused across the material from atmospheric to sub-atmospheric pressure in a vacuum chamber high velocity jets of air applied through the material in this state to physically extract the solvent and part of water therefrom in the form of liquid droplets which form suspension with the air present; separating the solvent from the solvent water air suspension in a liquid air momentum separator to form an emulsion of the separated solvent with the separated water, the solvent from said emulsion being separated in a gravity settler.

Provisional Specn. 6 Pages.

Drg. 1 Sheet.

Comp. Specn. 10 Pages.

No drawing.

CLASS 10 B.

148071.

Int. Cl. F42d 1/00.

**IMPROVED METHOD OF BLASTING.**

Applicants : (i) GOVIND GAJANAN BAPAT, (ii) NARANBHAI CHHAGANBHAI PATEL OF TIMBA ROAD, ANAND, GUJRAT STATE, INDIA.

Application 112/BOM/78 Filed 19th April, 1978.

Complete Specification left 10th July, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

**5 Claims.**

An improved method of blasting using the non-cap sensitive charge along with a booster, wherein a single booster consisting of a substantially full length continuous core of cap sensitive explosive is placed in the explosive column, the said core having a diameter not less than the critical diameter of the explosive material constituting the said booster and the said core being placed in a non-explosive jacket.

Prov. Specn. 4 Pages.

Comp. Specn. 9 Pages.

Drawing 1 Sheet.

## CLASS 63E.

148072.

Int. Cl. H02k 9/00.

"A HEAT PIPE FOR COOLING ELECTRIC MOTOR AND A METHOD FOR MANUFACTURING THE HEAT PIPE."

Applicants : TATA ENGINEERING AND LOCOMOTIVE COMPANY LIMITED, OF BOMBAY HOUSE, 24, HOMI MODY STREET, FORT, BOMBAY-400 023, MAHARASHTRA, INDIA.

Application No. 55/Bom/1979 Filed Feb. 23, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 11 Claims.

A heat pipe for cooling electric motor comprising a blind hole provided axially in the shaft of the electric motor, the hole being provided internally with a wick and being filled partly with a working fluid, an end cap for sealing the exposed end of the hole after the remaining space in the hole is evacuated and a sink provided at the exposed end of the hole.

Comp. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS 127H.

148073.

Int. Cl. F16h 35/16.

"AN APPARATUS FOR PRECISION CONTROL OF A MOVABLE PART LIKE PANTOGRAPH OF A STYLUS."

Applicant : DR. RAM NATH DIXIT, C/O. DR. K. D. BAJPAI, B/8, SAGAR UNIVERSITY, SAGAR, MADHYA PRADESH, INDIA.

Application Number : 231/Bom/1978 Filed Aug. 4, 1978.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 5 Claims.

An apparatus for precision control of a movable part like a pantograph (or a stylus) comprising of a control assembly consisting of a tracer wheel mounted at the centre of and perpendicular to the plane of a controlling wheel and along a rigid diametrical axle of the controller wheel, the said controller wheel and the said tracer wheel being separately and independently connected to prime movers such that the movement of the tracer wheel and controller wheel are independent of each other; the said assembly being connected to said movable part, such as pantograph through motion copying mechanisms, such that the motion of the tracer wheel is copied by the movable part.

Comp. Specn. 10 Pages.

Drg. 1 Sheet.

CLASS 160A & B

148074.

Int. Cl. B62b 5/06 & B62c 5/00.

A HAND-DRAWN OR ANIMAL-DRAWN CART.

Applicant : TUBE INVESTMENTS OF INDIA LIMITED, 1/12, NORTH BEACH ROAD, MADRAS-600001, TAMIL NADU.

Inventor : NARANAPATI SACHITHANANDAM SAMBASIVAM.

Application No. 37/Mas/78 filed March 14, 1978.

Complete specification left March 13, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 5 Claims.

A hand-drawn or animal-drawn cart comprising a plurality of supporting members, bolted to an axis on wheels, said wheels being detachable and of the pneumatic tyred type or the hard rubber-lined type; a plurality of tie-rods attached to the said members for stiffening them, the said tie-rods and members forming a framework; a platform supported on the said framework, characterised by a yoke having a cross-bar lined with rolls.

Prov. 5 Pages.

Comp. 6 Pages.

Drg. 2 Sheets.

## CLASS 64B\*

148075.

Int. Cl. H01r 19/12.

AN IMPROVED ELECTRIC PLUG.

Applicants : SEEPAGE INDIA, WHOSE SOLE PROPRIETOR IS S.A. SYED YUSUFF ADN SYED JALALUDDIN, BOTH OF NO. 1045, 36TH CROSS, 26TH MAIN, JAYANAGAR IV BLOCK-T, BANGALORE-560011, KARNATAKA.

Inventor : SYED JALALUDDIN.

Application No. 89/Mas/78 filed July 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 8 Claims

An improved electric plug for connecting a source of electrical energy to an electrically operated unit, such as a heater, grinder, mixer or the like apparatus, comprising a base portion and a top or cover portion, the base portion being provided with two plugging pins, one for a positive terminal, and one for a negative terminal, a built in fuse being provided near the top of the said base portion, and an indicator lamp also being provided on the said base, but on the opposite side of the said fuse, the positive terminal being connected to the fuse, and then through a resistor to the said indicator lamp, and thereafter to the negative terminal to complete the circuit.

Comp. 7 Pages. Drg. 1 Sheet of size 33.00cms. x 41.00).

CLASS 48D.

148076.

Int. Cl. H02g 3/10.

A DEVICE FOR CONCEALED ELECTRICAL WIRING.

Applicant & Inventor : MANDAYAM AMMANJI SRISHALLA, NO. 1, 9TH CROSS ROAD, SWIMMINGPOOL EXTENSION, BANGALORE-560003, KARNATAKA.

Application No. 94/Mas/79 filed May 30, 1979.

Complete Specification left November 19, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 4 Claims.

A device for concealed electrical wiring such as laid out in buildings, factories and like constructions comprising a first channel or like shaped elongated member adapted to be fitted or fixed on the wall or like structure, a second channel or like shaped elongated member having a longitudinal recess for retention of wires therein, said second channel member being placed within said first channel member, and both said members being engulfed by a third elongated member.

Prov. 5 Pages.

Comp. 6 Pages.

Drg. 1 Sheet.

CLASS 103.

148077.

Int. Cl. F16f 1/00, C23f 11/00.

SHOCK ABSORPTION FLUID.

Applicant : CHIEF CONTROLLER RESEARCH & DEVELOPMENT (GENERAL) IN THE RESEARCH AND DEVELOPMENT ORGANISATION, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI, INDIA.

Inventors : GURU CHARAN GUPTA, TEJ KRISHAN GROVER AND DR. PREM NARAIN AGARWAL.

Application No. 11/Del/76 filed October 18, 1976.

Complete Specification left January 16, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 3 Claims. No drawings.

A shock absorption fluid comprising a mixture of mono ethylene glycol, ethyl alcohol and distilled water, fortified with corrosion inhibitors in the following proportions weight by weight.

(i) Monoethylene glycol-60-70 parts per 100 parts of the total fluid.

- (ii) ethyl alcohol -3-12 parts of item 1.
- (iii) distilled water -10.15 parts of item 1.
- (iv) Corrosion inhibitors-2-4 parts of the total weight of the fluid.

Prov. Specn. 5 Pages.

Comp. Specn. 6 Pages.

Drgs. Nil.

CLASS 70C.

148078.

Int. Cl. C23b 7/04, C23b 5/20.

#### PROCESS FOR THE PRODUCTION OF ELECTRO-FORMED COPPER FOIL.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventors: BALKUNJE ANANTHA SHENOI, SANDIP KUMAR ROY, VENKATARAMAN SIVAN, SUBBIAH JOHN.

Application No. 160/Del/77 filed July 16, 1977.

Complete Specification left August 11, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

Process for the production of electroformed copper foil by electrolytic deposition of copper on mandrels formed of titanium sheet cathodes in an acid copper bath characterised in that the titanium sheet for use as cathode is subjected to a chemical pretreatment in an acidic aqueous solution of hydrofluoric acid and a mineral acid.

Prov. Specn. 5 Pages.

Comp. Specn. 6 Pages.

Drg. 1 Sheet.

CLASS 172D.

148079.

Int. Cl. D01h 1/24.

#### TANGENTIAL BELT DRIVE FOR SPINNING, TWISTING OR FALSE-TWISTING MACHINES.

Applicant: NASCHINENSABRIK RIETER A.G., OF WINTERTHUR, SWITZERLAND.

Inventors: HEINZ BURRI AND RICHARD BURRI.

Application No. 1216/Cal/77 filed August 5, 1977.

Convention date September 7, 1976/(36982/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A tangential belt drive for spinning, twisting and false-twisting machines with a row of spindles or the like for imparting twist to a yarn or thread, the arrangement comprising a tangential drive belt for driving the spindles or the like jointly a drive roll and a tensioning roll between which the tangential drive belt is tensioned, in the tensioning roll being arranged also to drive further working elements of the spinning machine and being rotatably supported on a rotatable axle connected with it; a lever on which the rotatable axle is supported, the lever being pivotable about a pivot axle parallel to the plane containing the tangential drive belt and, acting on the lever, an element for generating a momentum, the pivot axle of the lever being fixed but rotatable as well as being connected with the rotatable axle of the tensioning roll by drive transmitting means.

Comp. Specn. 14 Pages.

Drg. 3 Sheets.

CLASS 70C.

148080.

Int. Cl. C 23b 3/02.

#### AN IMPROVED PROCESS FOR THE REMOVAL OF CHLORINE IONS FROM ETCHED ALUMINIUM FOIL FOR USE IN ALUMINIUM ELECTROLYTIC CAPACITOR.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventors: SHRI BALKUNJE ANANTHA SHENOI, SHRI KANDADAI RAJAGOPALACHARI NARASIMHAN, VENKATASUBRAMANIAN LAKSILMINARASIMHAN, SHRI DEVRAJ KANAGARRAJ AND SHRI ANGSAMY PERUMAL.

Application No. 205/Del/77 filed August 19, 1977.

Complete Specification left November 18, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims. No drawings.

An improved process for the removal of chloride ions from an etched aluminium foil for use in aluminium electrolytic capacitor comprising treating the etched foil in an acid mixture and washing the same with water characterised in that solution of ammonium pentaborate and boric acid.

Prov. Specn. 5 Pages.

Comp. Specn. 7 Pages.

Drgs. Nil.

CLASS 69N.

148081

Int. Cl.-H01h 9/30.

#### FLUID BLAST CIRCUIT BREAKER.

Applicant: MITSUBISHI DENKI CABUSHIKI KAISHA, OF 2-3, MARUNOUCHI 2-CHOME, CHIYODAKU, TOKYO, JAPAN.

Inventors: MASANORI MIYAGAWA.

Application No. 1319/Cal/77 filed August 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A fluid blast-circuit breaker comprising a pair of contact members relatively movable to engage and disengage from each other, and a cylinder and a piston relatively moved in response to the relative movement between the contact members to supply an arc extinguishing fluid to the engageable and disengageable portions of the contact members, characterized in that said cylinder and a contact rod carrying one of said contact members are integrally connected to each other through a supporting member and at a position where the integral connection of said cylinder and said contact rod is effected not to traverse a space through which the arc extinguishing fluid supplied to said engageable and disengageable portions of said contact members flows.

Comp. Specn. 16 Pages.

Drg. 4 Sheets.

CLASS 24D.

148082.

Int. Cl.-F16j 1/08.

#### PISTON MEANS FOR PISTON-CYLINDER ARRANGEMENTS.

Applicant: AVON INDUSTRIAL POLYMERS (BRADFORD-ON-AVON) LIMITED, FORMERLY KNOWN AS AVON INDUSTRIAL POLYMERS LIMITED, OF BATH ROAD, MELKSHAM ENGLAND, AND WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, OF 3 JOHN STREET, LONDON WC1N 2ES, ENGLAND.

Inventors: JACK BURNHAM AND JACK WASHBOURN.

Application No. 242/Del/77 filed September 19, 1977.

Convention date September 24, 1977/(39681/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

11 Claims.

Piston means for slideable mounting in a cylinder member to form therewith a piston cylinder arrangement, the piston means comprising a packing member mounted on a piston member for movement therewith, the packing member comprising first and second portions having radially outer surfaces axially separated by a recess and

dimensioned such that, in use, each outer surface contacts slidably against the inner surface of said cylinder member with said inner surface providing an outer closure for the recess, characterised in that the first portion is substantially more flexible than the second portion and in that a reservoir for lubricant is provided in the piston means in communication with the recess in the packing member.

Comp. Specn. 12 Pages.

Drg. 2 Sheets.

CLASS 32F-b & 55E.

148083.

Int. Cl.-C07d 43/30;

#### PROCESS FOR EXTRACTION AND PURIFICATION OF THE BAINE FROM PAPAVER BRACTEATUM.

Applicant : E. I. Du PONT DE NEMOURS AND COMPANY, OF WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor : HOWARD ELLIS JONES.

Application No. 223/Cal/78 filed March 1 1978.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

6 Claims. No drawings.

Process for extraction and purification of the baine from *papaver bracteatum* which consists essentially of

(A) contacting *papaver bracteatum* plant material in particulate for having particle size of less than 1.25 mm diameter with an extraction solvent consisting essentially of methanol, 5 to 15% by weight of water and 0.1 to 2% of a weak base having a pKb of 1.4 to 5 while maintaining a temperature below 50°C;

(B) forming the baine salt solution by acidification of the baine which results from step (A) to pH of about 4, to 7 with a dilute aqueous acid having a pKa of 5 or less;

(C) filtering acid-insoluble impurities out of the solution;

(D) adjusting the pH of the solution to about 9-10, and

(E) separating the baine thus precipitated.

Comp. Specn. 15 Pages.

Drgs. Nil.

CLASS 35E.

148084.

Int. Cl.-C04b 33/22 35/06, 35/10.

#### PROCESS OF MAKING TAR-BONDED AND TAR-IMPREGNATED SHAPED REFRACTORY MASSES.

Applicant : MAYUR CHEMICAL INDUSTRIES, LAL BAZAR, BARIPADA-757001, Dist-MAYURBHANJ, ORISSA, INDIA.

Inventor : DR. ASOK KUMAR TRIPATHY.

Application No. 228/Cal/78 filed March 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims. No drawings.

A process of making tar-bonded and tar-impregnated refractory shaped masses wherein the tar bonding and tar impregnation is carried out by adding upto 15 parts by Wt. of tar to every 100 parts by wt. of granular refractory aggregates or shaped masses characterised by that the tar is added in the form of a solution in kerosene, diesel or furnace oil.

Comp. Specn. 8 Pages.

Drgs. Nil.

CLASS 47B & 84A & 88D.

148085.

Int. Cl.-C10j 3/00, 3/20.

#### A PROCESS FOR THE PARTIAL COMBUSTION OF FINELY DIVIDED SOLID CARBONACEOUS FUEL AND REACTOR FOR CARRYING OUT THE SAME.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTLAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : HSI LIN WU, IAN POLL, HENDRIKUS JOHANNUS ANTONIUS HASENACK AND MAARTEN JOHANNES VAN DER BURGT.

Application No. 268/Cal/78 filed March 14, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A process for the partial combustion of finely divided solid carbonaceous fuel containing at least 1% by weight ash in a reactor, product gas being discharged from thereactor via an outlet duct in which a protective gas shield is formed against the wall that comes into contact with the product gas, characterized in that a gaseous coolant consisting of recirculated product gas and optionally containing steam which has previously been cooled and purified, is passed in a quantity of from 50 to 200% by weight, based on the weight of the product gas, through a porous cylinder wall having a length between one half and four times its diameter and a porosity between 0.05 and 0.5, into the outlet duct, where it forms the stable protective gas shield the velocity of the gaseous coolant while passing the wall being between 0.1 and 10 m/s.

Comp. Specn. 16 Pages.

Drg. 1 Sheet.

#### OPPOSITION PROCEEDINGS

(1)

The opposition entered by Nauchem Plastic Limited to the grant of a patent on application No. 138197 made by Gujchem Distillers India Limited as notified in Part-III, Section 2 of the Gazette of India, dated the 24th December, 1977 has been dismissed and a patent has been ordered to be sealed on the application subject to amendment of the complete specification.

(2)

The opposition entered by The Associated Cement Companies Ltd., to the grant of a patent on application No. 146843 made by Allis-Chalmers Corporation as notified in Part-III, Section 2 of the Gazette of India, dated the 19th April, 1980 has been treated as withdrawn.

(3)

The opposition entered by Harish Textile Engineers Private Limited to the grant of a patent on application No. 147097 made by Kiranchandra Vasant Mysore, as notified in Part-III, Section 2 of the Gazette of India dated the 28th June, 1980 has been dismissed due to non-filing of the written statement of opposition.

(4)

An opposition has been entered by the Associated Cement Companies Limited to the grant of a patent on application No. 147387 made by Raymond C. Turpin & others.

(5)

An opposition has been entered by Cement Research Institute of India to the grant of a patent on application No. 147387, made by Raymond C. Turpin & others.

#### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the under specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

(1)

138699 138700 138701 138702 138703 138705 138708 138709  
138710 138711 138712 138713 138715 138716 138717 138718  
138719 138720 138721 138722 138723 138724 138725 138726  
138729.



(2)

142183 142186 132188 142190 142192 142203 142206 142207  
142208 142209 142210 142211 142215 142222 142225 142228  
142229 142230 142233 142234.

(3)

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## PATENTS SEALED

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146960 146972 146973 147036 147037 147045 147053 147054  
147062 147063 147070 147090 147092 147137 147145.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Harish Engineering Works of Umbergaon, District Bulsar, Gujarat, India, an Indian Partnership firm, whose partners are (1) Harendra Gandhi, (2) Kirti Kumar Gandhi, (3) Himatlal Gandhi and (4) Kunchanbai Gandhi, all Indian subjects of the above address, have made an application under Section 57 of the Patents Act, 1970 for amendment of the specification of their application for patent No. 141660 for "Improvements in or relating to rotary screen". The amendments are by way of correction so as to define the invention more clearly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Todi Estates, Lower Parel, Bombay-400 013, on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form-30 within three months from the date of this notification at the Patent Office Branch, Bombay. If the written statement of opposition is not filed with the notice of opposition, it shall be left within one month from the date of filing of the said notice of opposition.

PATENTS DEEMED TO BE ENDORSED WITH  
THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.	Title of the invention
139720 (18-01-73)	A process for preparing a sulfided metallic support catalyst.
139775 (28-05-74)	A method for producing maltose.
139834 (16-11-73)	Improvements relating to calcination of pulverous material and plant for effecting the same.
139970 (02-01-76)	Process for preparation of a composition in form of lotion for preventing acne lesion.
139978 (08-05-74)	A process for preparing a chlorothio N-phthalimide.
140029 (22-12-73)	Process for preparing copper phthalocyanine pigments of the $\alpha$ -modification.
140031 (06-02-74)	Method of recovering unreacted ammonium carbamate in urea synthesis.
140033 (05-04-74)	Process for thermally gasifying hydrocarbons with oxygen & water vapour as gasifying agent.
140042 (14-04-75)	Process for preparation of clavulanic acid & derivatives thereof.
140070 (05-09-73)	Process for preparing catalyst composition.
140110 (14-11-75)	Process for the preparation of new quinoxaline 1,4-dioxide derivative.
140120 (17-06-74)	Process for preparing antagastric ulcer chalcone ether.

2-277GI/80

140136 (13-08-74) A process for preparation of trypsin from buffalo & goat pancreas.

140137 (03-09-74) A process for synthesis of ether derived from substituted 3-nitro 4-hydroxybenzamide.

140139 (27-12-74) A method for preparation of an ophthalmic otic composition.

140160 (10-12-74) Process for preparing malonic acid dinitrile.

140315 (17-10-74) Method for refining pig iron into steel.

## RENEWAL FEES PAID

101647 101847 101933 101944 102046 102047 102134 102517  
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146045 146079 146080 146225 146400 146546 146647 146682  
146684

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 149177. Thakur Hardware Industries, Shop No. 34, Subhash Nagar, Main Market, New Delhi-110027, an Indian Proprietary Concern. "Iron Sham". January 14, 1980.

Class 1. No. 149195. Thakur Hardware Industries, Shop No. 34, Subhash Nagar, Main Market, New Delhi-110027, an Indian Proprietary Concern. "Iron Sham". January 14, 1980.

Class 1. No. 149243. Murugan Metal Works, No. 1, Amirmahal Road, Royapettah, Madras-600014, Tamil Nadu, India, Proprietary Concern. "Muffler". February 2, 1980.

Class 1. No. 149258. Abdul Majid trading as Handicrafts Industries, Idgah Road, Moradabad, Uttar Pradesh, an Indian National. "Container". February 4, 1980.

Class 1. No. 149330. Odesskoe Spetsialnoe Konstruktor'skoe Bjuro Spetsialnykh Stankov, of Odessa, prospekt Gagarina, 25, USSR. "Portable Roughing and Grinding Machine". February 28, 1980.

Class 3. No. 149247. The Print Shop, 168-E, Ganesh Nivas, Vikas Wadi, Dr. Ambedkar Road, Dadar, Bombay-400014, Maharashtra, a Proprietary firm. "Match Box". February 4, 1980.

Class 3. No. 149250. Grand Plastics, 413-G, Vasantwadi, Room No. 32, 4th floor, Kalbadevi Road, Bombay-400002, Maharashtra, Indian Proprietary Firm. "Door Stopper". February 4, 1980.

Class 3. No. 149251. Grand Plastics, 413-G, Vasantwadi, Room No. 32, 4th floor, Kalbadevi Road, Bombay-400002, Maharashtra, Indian Proprietary firm. "Catcher for Door Stopper". February 4, 1980.

Class 3. No. 149252. Minni Trading Corporation, 5-B, Kanchan Villa, Goraswadi, Malad, Bombay-400064, Maharashtra, Indian Partnership Firm. "Pourer Plug". February 4, 1980.

Class 3. No. 149253. Minni Trading Corporation, 5-B, Kanchan Villa, Goraswadi, Malad, Bombay-400064, Maharashtra, Indian Partnership Firm. "Pourer Plug". February 4, 1980.

Class 3. No. 149254. Minni Trading Corporation, 5-B, Kanchan Villa, Goraswadi, Malad, Bombay-400064, Maharashtra, Indian Partnership Firm. "Pourer Plug". February 4, 1980.

Name Index of Applicants for Patents for the month of May, 1980 (Nos. 500/Cal/80 to 652/Cal/80, 119/Bom/80 to 148/Bom/80, 84/Mas/80 to 99/Mas/80 and 319/Del/80 to 400/Del/80).

Name Appln. No.

## A

AB Medline.—546/Cal/80.

A. G. Patents Limited.—398/Del/80.

Ahmedabad Textile Industry's Research Association.—140/Bom/80.

Aktieselskabet De Danske Sukkerfabrikker.—629/Cal/80.

Alsthom-Atlantique.—346/Del/80.

Aluminium Pechiney.—554/Cal/80.

Aluminum Company of America.—391/Del/80.

American Standard Inc.—585/Cal/80.

Amsted Industries Incorporated.—517/Cal/80, 600/Cal/80.

Archakov, V. P.—603/Cal/80.

Asahi Kasei Kogyo Kabushiki Kaisha.—529/Cal/80.

## B

BASF Aktiengesellschaft.—526/Cal/80.

Bammert, K., Prof. Dr. Ing.—507/Cal/80.

Bateman Equipment Limited.—616/Cal/80, 617/Cal/80.

Beloit Corporation.—571/Cal/80.

Berthold Haller KG.—372/Del/80.

Betch GmbH.—614/Cal/80, 615/Cal/80.

Bharat Heavy Electricals Ltd.—350/Del/80.

Bhatnagar, R.—369/Del/80.

Bhatt, K. C.—85/Mas/80.

Bhavana Chemicals Limited.—135/Bom/80.

Biuro Projektow Przemyslu Metali Niezależnych "Bipromet".—627/Cal/80.

Borinevich, I. V.—603/Cal/80.

Bose, T.—645/Cal/80.

Buckman Laboratories Inc.—607/Cal/80, 622/Cal/80.

## C

C. Eugen Maier Metallverarbeitung GMBH.—523/Cal/80.

Carrier Corporation.—341/Del/80.

Celanese Corporation.—597/Cal/80.

Cement Research Institute of India.—396/Del/80, 397/Del/80.

Chakraborty, D. (Dr.).—369/Del/80.

Charbonnages De France.—576/Cal/80.

Charles F. Kettering Foundation.—593/Cal/80.

Chatterjee, S. S.—562/Cal/80.

Chem-Crete Corporation.—588/Cal/80.

Chief Controller Research & Development, Ministry of Defence, The.—385/Del/80.

Chloride Group Limited.—542/Cal/80, 543/Cal/80, 544/Cal/80, 545/Cal/80.

Chloride India Limited.—635/Cal/80

Ciba-Geigy A.G.—602/Cal/80, 392/Del/80.

Cimmco International.—356/Del/80, 357/Del/80.

Combustion Engineering, Inc. 570/Cal/80.

Conner, A. J.—583/Cal/80.

Council of Scientific & Industrial Research.—326/Del/80, 327/Del/80, 333/Del/80, 338/Del/80, 343/Del/80, 360/Del/80, 361/Del/80, 378/Del/80, 386/Del/80, 387/Del/80, 390/Del/80.

Creusot-Loire Enterprises.—365/Del/80.

## D

Devi, K.—329/Del/80.

Director General, Research Designs & Standards Organisation.—322/Del/80, 323/Del/80, 324/Del/80, 337/Del/80.

Dneprodzerzhinsky Vagonostroitelny Zavod Imeni Gazety "Pravda".—652/Cal/80.

Donetsky Nauchno-Issledovatel'sky Institut Chernoi Metallurgii.—514/Cal/80.

Dorr-Oliver Incorporated.—400/Del/80.

Dow Chemical Company, The.—520/Cal/80.

Dressor Industries, Inc.—332/Del/80.

Dunlop Limited.—320/Del/80.

Dyno Industrier A.S.—374/Del/80.

## E

Eberil, V. I.—603/Cal/80.

## F

F. L. Smidth & Co. A/s.—567/Cal/80.

FMC Corporation.—345/Del/80, 393/Del/80.

Fisin, V. I.—603/Cal/80.

Flowcon OY.—626/Cal/80.

Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H.—503/Cal/80, 504/Cal/80, 521/Cal/80, 540/Cal/80.

Fried Krupp Gesellschaft Mit Beschränkter Haftung.—587/Cal/80.

## G

G. D. Societa Per Azioni.—331/Del/80, 367/Del/80.

General Electric Company.—508/Cal/80, 577/Cal/80.

General Electric Company Limited, The.—344/Del/80.

Goswami, A. P. (Dr.).—321/Cal/80.

Grindwell Norton Limited.—148/Bom/80.

Guha, M. (Sm.).—613/Cal/80.

Gulf Research & Development Company.—532/Cal/80, 533/Cal/80, 534/Cal/80, 535/Cal/80, 536/Cal/80, 537/Cal/80.

Gupta, B. K.—328/Del/80.

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## L

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## O

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## R

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## S

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